

SEVERE LOCAL STORMS, MARCH 1942

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Great Valley and Mountain Counties, Va.	2-3			2	\$90,000	Blizzard	Snow depths ranged from 6 to 30 inches. Traffic disrupted for several days throughout most of the mountain counties. Schools closed in many places and at Meadows of Dan children were marooned in schools for 2 days. Cost of clearing highways approximately \$90,000.
Buffalo, N. Y.	3				50,000	Wind	Property damaged.
Richmond, Va., and vicinity	9	10 a. m.-6 p. m.			1,000	High winds	Signboards wrecked; trees uprooted or broken; telegraph and electric lines damaged; 2 persons injured.
Camden, S. C.	15	11:30 a. m.	880		3,500	Thunderstorm and hail	Roofs and communication lines damaged; many trees uprooted; path 2½ miles long. Damage from hail, \$1,000 given in the estimate above.
El Rena, Okla., and vicinity	15	8:20-8:50 p. m.			200,000	Hail	Much property damaged. Gardens and crops not far enough advanced to be materially affected.
Britton, Okla.	15	8:45-9:20 p. m.	16		3,000	do.	About 50 percent of the stones were as large as golf balls or slightly larger and many remained on the ground the following morning. Considerable damage to greenhouses and other property, principally windows and roofs of dwellings. Little or no crop loss; path 12 miles long.
Canadian and Kingfisher Counties, Okla.	15		300-1,760	0	30,300	Tornado	Storm struck in the western portion of Okarche, in the extreme northern portion of Canadian County at 11:10 p. m., and moved in a northeasterly direction for about 12 miles, finally disappearing a few miles east of Kingfisher. Property damaged, 1 person injured, and chickens and farm animals killed.
Sylvania, Leitchfield, Stephensburgh, and Bardstown, Ky., and vicinities.	16	5:40-7:20 p. m.		24	312,000	do.	Property damaged.
Shelbyville, Mays, and Lewisville, Ind.	16	6 p. m.	400	0	300,000	do.	Most of the damage occurred at Shelbyville, where 7 persons were injured. Some damage at Mays and Lewisville.
Goshen and Plymouth, Ind.	16	9:30 p. m.	167	2	400,000	do.	Most of the damage at Goshen where 32 persons were injured and 87 houses damaged. Some damage at Plymouth.
West Union, Ind., vicinity of Champaign, Vermillion, Fulton, Knox, Marshall, and Logan Counties, Ill.	16	10 p. m.	17	0	1,000	do.	Path from southwest to northeast; no details.
Leflore, Carroll, Granada, Yalobusha, Calhoun, Lafayette, Pontotoc, Union, Lee, Prentiss, Marshall, and Benton, Counties, Miss.	16			65	859,000	do.	115 residences and 86 barns destroyed; many others damaged with more than 120 persons injured. About 85 percent of all losses occurred to town property at Alvin, in Vermillion County, and Lacon, in Marshall County.
New York State, western counties.	16-17				1,000,000	Heavy rains	Property damage not estimated. Power and electric lines crippled; some livestock killed. Greatest loss to residence, farm buildings, and equipment. 500 persons were injured.
Norway, S. C., vicinity of	17	6:30 p. m.	440	0	25,000	Tornado	Many streams overflowed, inundating roads, bridges, and farms. In Chautauqua County, many cattle drowned and schools and manufacturing plants were forced to close. In Mayville a train was derailed.
Brookings, Moody, Minnehaha, and Lincoln Counties, S. Dak.	19-20	2:39 p. m.-5:13 a. m.	80		50,000	Clinging, wet snow	There were 13 homes, 1 school, and a number of outbuildings demolished. 7 persons injured by falling debris.
South Dakota, eastern half	25-27				100,000	High wind and wet snow.	Especially severe in Minnehaha County. Damage to communication lines and trees.
							Communication lines disrupted; traffic halted and highways blocked, and schools closed for several days.

¹ Miles instead of yards.

SOLAR RADIATION AND SUNSPOT DATA FOR MARCH 1942

[Solar Radiation Investigations Section, I. F. HAND in charge]

SOLAR RADIATION OBSERVATIONS

Explanations of the tables, and references to descriptions of instruments, stations and methods of observation, and to summaries of data, are given in the January 1942 REVIEW, p. 20.

TABLE 1.—Solar radiation intensities during March 1942

[Gram-calories per minute per square centimeter of normal surface]

MADISON, WIS.

Date	Sun's zenith distance										Local mean solar time	
	7:30 a. m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°		
	75th mer. time	Air mass										
		A. M.					P. M.					
e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.		
Mar. 3	mm. 2.87	cal. 0.96	cal. 1.06	cal. 1.26	cal. 1.60	cal. 1.33	cal. 1.56				mm. 2.87	
Mar. 9	2.36			1.35	1.56						3.00	
Mar. 10	2.74	.98	1.10	1.24							2.74	
Mar. 12	3.15	1.02	1.14	1.25	1.41						3.15	
Mar. 19	3.63	0.87	.96	1.11	1.28	1.55					4.37	
Mar. 23	3.00					1.24					3.00	
Mar. 31	3.99			.84	.74	1.28					3.63	
Means	(.87)	.98	.99	1.19	1.48	(1.28)						
Departures	-.01	-.02	-.15	-.11	-.08	-.02						

TABLE 1.—Solar radiation intensities during March 1942—Continued

[Gram-calories per minute per square centimeter of normal surface]

LINCOLN, NEBR.

Date	Sun's zenith distance										Local mean solar time	
	7:30 a. m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°		
	75th mer. time	Air mass										
		A. M.					P. M.					
e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.		
Mar. 2	mm. 2.62	cal. 1.04	cal. 1.13	cal. 1.24	cal. 1.38	cal. 1.41	cal. 1.27	cal. 1.16	cal. 1.09	mm. 3.45		
Mar. 4	4.57					1.38	1.22	1.12	1.01	4.57		
Mar. 5	3.81	.94	1.05							4.75		
Mar. 8	3.45		1.05	1.20	1.36					3.63		
Mar. 9	3.30	.96	1.05	1.16	1.31					4.75		
Mar. 11	3.00					1.29	1.14	1.03	.94	4.17		
Mar. 21	3.45	1.01	1.09	1.20	1.38	1.27	1.14	1.03	.92	3.63		
Mar. 22	3.63					1.25	1.06	.92	.84	6.15		
Mar. 23	3.57	.62	.83	.97	1.16					7.04		
Means	.91	1.03	1.15	1.32		1.32	1.17	1.05	.96			
Departures	+.06	+.09	+.05	+.04		+.04	+.08	+.11	+.14			